

Applicant: Diederer
Application No.: Unassigned
Filing Date: Herewith
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B. Amendments to the Claims:

Please amend the claims as follows:

Claim 1. (currently amended): Printing device for printing a substrate with a printing medium using the "drop-on-demand" principle, comprising a print head, which is arranged in such a manner that it can be moved to and fro substantially transversely with respect to the direction in which the substrate to be printed is conveyed and has at least one spray nozzle with an interacting piezoelectric element for generating and releasing a drop of the printing medium on demand, the spray nozzle being in communication with a flexible working container, which is arranged at a fixed position, for degassed printing medium at a working height with respect to the spray nozzle which working height lies within a predetermined height range, in order to keep the pressure of the printing medium within a predetermined pressure range, ~~characterized in that~~ wherein the working container (30) is in communication with a releasable flexible reservoir (32) for degassed printing medium.

Claim 2. (currently amended): Printing device according to claim 1, ~~characterized in that~~ wherein the reservoir (32) is positioned at a height difference above the working container (30).

Claim 3. (currently amended): Printing device according to ~~one of the preceding~~ claim[[s]] 1, ~~characterized in that~~ wherein the printing device is provided with displacement means for moving the reservoir (32) upwards with respect to the working container (30).

Claim 4. (currently amended): Printing device according to claim 3, ~~characterized in that~~ wherein the displacement means comprise support means, which can be tilted towards the working container (30), for supporting the reservoir (32).

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Claim 5. (currently amended): Printing device according to claim 4, ~~characterized in that~~ wherein the support means comprise a support plate (50), which can rotate about a rotation point (54) located in the vicinity of the end (52) which faces the working container (30), and at the opposite end (56) is connected to counter-pressure means (58), and which in the horizontal position bears against supporting means (51).

Claim 6. (currently amended): Printing device according to claim 5, ~~characterized in that~~ wherein there are signalling means (66) for remote detection of tilting of the support plate (50).

Claim 7. (currently amended): Printing device according to claim 6, ~~characterized in that~~ wherein the signalling means (66) are connected to a switch (62), which is energized in the event of the support plate (50) tilting.

Claim 8. (currently amended): Printing device according to ~~one of the preceding~~ claim[[s]] 1, ~~characterized in that~~ wherein the flexible reservoir (32) is made from a metalized plastic film which is impervious to gas.

Claim 9. (currently amended): Printing device according to ~~one of the preceding~~ claim[[s]] 1, ~~characterized in that~~ wherein the reservoir has a height dimension and the working container has a height dimension, wherein the height dimension of the reservoir (32), in the completely filled state, is smaller than the height dimension of the working container (30).

Claim 10. (currently amended): Printing device according to ~~one of the preceding~~ claim[[s]] 1, ~~characterized in that~~ wherein the reservoir (32) has a front surface (80) and a rear surface, which are connected to one another along the periphery (82), an outlet opening (85) with connecting means (86) for coupling to the working container (30) being provided in a peripheral part (84).

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Claim 11. (currently amended): Printing device according to claim 10, ~~characterized in that~~ wherein the peripheral part (84) is shaped in such a manner that the inner wall (88) of the reservoir (32) has a gradual transition in the direction of the outlet opening (85).

Claim 12. (currently amended): Printing device according to ~~one of the preceding~~ claim[[s]] 10 [[-11]], ~~characterized in that~~ wherein the front surface of the reservoir has a length and a width, wherein the ratio of the length of [[a]] the front surface (80) of the reservoir (32) to its width is greater than 2.5.

Claim 13. (currently amended): Flexible reservoir, filled with degassed printing medium, ~~in particular obviously~~ intended for a printing device according to ~~one of the preceding~~ claim[[s]] 1, which reservoir (32) comprises a front surface (80) and a rear surface made from a gas-impervious, metalized plastic film, which are connected to one another along the periphery (82), a closable outlet opening (85) with connecting means (86) for coupling to a working container (30) being provided in a peripheral part (84).

Claim 14. (currently amended): Reservoir according to claim 13, ~~characterized in that~~ wherein the front surface has a length and a width, wherein the ratio of the length of ~~a~~ the front surface (80) of the reservoir (32) to its width is greater than 2.5.

Claim 15. (currently amended): Reservoir according to claim 13 ~~or~~ [[14]], ~~characterized in that~~ wherein the peripheral part (84) is shaped in such a manner that the inner wall (88) of the reservoir (32) has a gradual transition in the direction of the outlet opening (85).

Claim 16. (currently amended): Working container for degassed ink, ~~in particular obviously~~ intended for use for a printing device according to ~~one of the preceding~~ claim[[s]] 1 [[-12]], comprising a flexible container (30) made from a metalized plastic film, a first peripheral part of which is provided with an outlet opening with connecting means for coupling to a feed

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leading to a print head, and a second peripheral part of which is provided with an inlet opening with connecting means for coupling to a reservoir.

Claim 17. (currently amended): Feed system for feeding a printing medium to a printing device, ~~in particular obviously~~ intended for a printing device according to ~~one of claim~~[[s]] 1 ~~[[12]]~~, ~~characterized in that~~ wherein the system comprises a flexible reservoir ~~according to one of claims 13-15~~, which is operatively connected to a working container ~~according to claim 16~~, wherein

the reservoir comprises a front surface and a rear surface made from a gas-impervious, metalized plastic film, which are connected to one another along the periphery, a closable outlet opening with connecting means for coupling to the working container being provided in a peripheral part, and

the working container comprises a flexible container made from a metalized plastic film, a first peripheral part of which is provided with an outlet opening with connecting means for coupling to a feed leading to a print head, and a second peripheral part of which is provided with an inlet opening with connecting means for coupling to the reservoir.